

Scaled data based on original data using

LM-41-14 Approved Method for Photometric Testing Of Indoor Fluorescent Luminaires

Test Report Prepared for

Cooper Lighting Solutions

(formerly Eaton)

Brand: NEO-RAY

Report Number: BAL 8071

Luminaire Tested: **6DIW-S26-S14**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: BAL 8071
Test Lab:
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: NEO-RAY
Catalog Number: 6DIW-S26-S14
Description: 6"DIA CYL DIR/INDIRECT LUMINAIRE REFL=89
Light Source: 3-F32T8/735/RS
Ballast/Driver: -

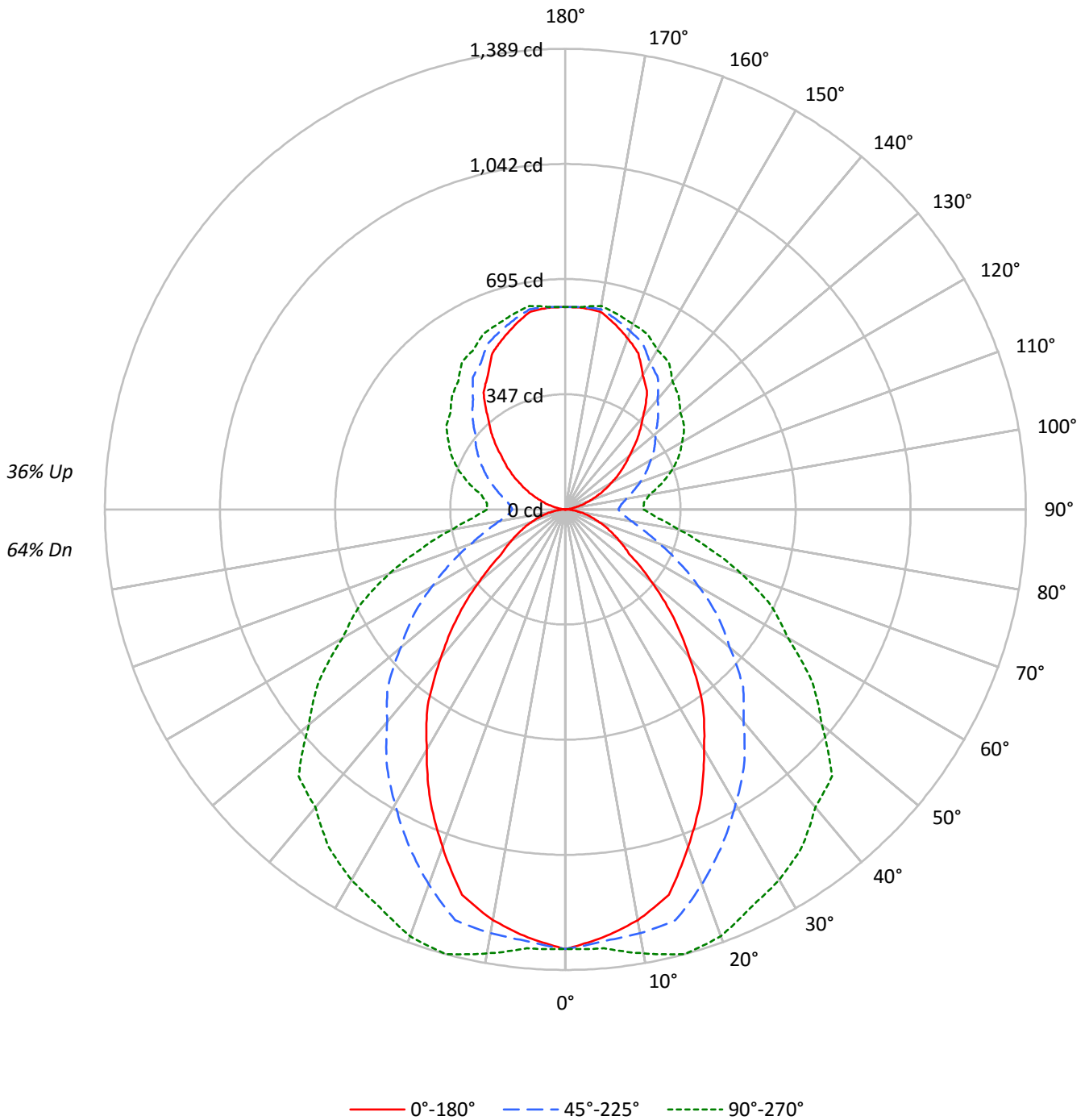
Summary

Lumens per Lamp: 2850 (3 lamps)
Luminaire Lumens: 5533.7 lumens
Efficiency: 64.7%
Efficacy: 65.9 lumens/watt
Spacing Criteria (0/90/45): 1 / 1.43 / 1.29
Luminous Opening: Rectangular w/ Sides (W: 0.44' x L: 4' x H: 0.12')
CIE Type: Semi-Direct

Input Watts (W): 84
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT

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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20					20					20					20					20	
RC	80					70					50					30					10	0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	0	
RCR																						
0	71	71	71	71	67	67	67	67	59	59	59	51	51	51	45	45	45	41				41
1	65	62	59	56	61	58	55	53	51	49	47	44	43	42	38	37	36	34				34
2	59	54	49	46	55	50	47	43	44	41	39	39	37	35	34	32	30	28				28
3	54	47	42	38	50	44	40	36	39	36	33	34	32	29	30	28	26	24				24
4	49	42	36	32	46	39	35	31	35	31	28	31	28	25	27	24	22	20				20
5	45	37	32	28	42	35	30	27	31	27	24	28	24	22	24	22	20	18				18
6	42	34	28	24	39	32	27	23	28	24	21	25	22	19	22	19	17	15				15
7	39	30	25	21	36	29	24	20	26	22	19	23	19	17	20	17	15	14				14
8	36	28	22	19	34	26	21	18	23	19	17	21	18	15	18	16	14	12				12
9	33	25	20	17	31	24	19	16	22	18	15	19	16	14	17	14	12	11				11
10	31	23	18	15	29	22	18	15	20	16	14	18	15	12	16	13	11	10				10

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	8147	8147	8147
5°	7971	7906	7997
10°	7805	7790	8078
15°	7594	7699	8207
20°	7001	7279	8114
25°	6454	6862	7921
30°	5826	6452	7857
35°	5314	6095	7776
40°	4556	5644	7590
45°	3884	5381	7692
50°	3115	4882	7204
55°	2420	4553	6925
60°	2180	4108	6373
65°	1962	3713	6168
70°	1720	3348	5669
75°	1531	3155	5104
80°	1232	3133	4675
85°	779	3407	4565



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ZONAL LUMENS:

Zone	Lumens	% Fixture	% Lamp
0°-10°	124.9	2.3	1.5
10°-20°	359.9	6.5	4.2
20°-30°	520.3	9.4	6.1
30°-40°	596.7	10.8	7.0
40°-50°	589.5	10.7	6.9
50°-60°	500.3	9.0	5.9
60°-70°	384.5	6.9	4.5
70°-80°	270.3	4.9	3.2
80°-90°	184.2	3.3	2.2
90°-100°	167.4	3.0	2.0
100°-110°	206.8	3.7	2.4
110°-120°	255.4	4.6	3.0
120°-130°	289.5	5.2	3.4
130°-140°	305.3	5.5	3.6
140°-150°	300.2	5.4	3.5
150°-160°	252.6	4.6	3.0
160°-170°	167.4	3.0	2.0
170°-180°	58.4	1.1	0.7
0°-30°	1005.2	18.2	11.8
0°-40°	1601.9	28.9	18.7
0°-60°	2691.7	48.6	31.5
0°-90°	3530.7	63.8	41.3
90°-120°	629.6	11.4	7.4
90°-150°	1524.6	27.6	17.8
90°-180°	2003.0	36.2	23.4
0°-180°	5533.7	100.0	64.7

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1326	1326	1326	1326	1326	
5°	1296	1298	1307	1321	1329	123
15°	1204	1226	1283	1349	1389	335
25°	966	1009	1118	1243	1324	443
35°	724	789	940	1120	1244	448
45°	461	547	758	987	1138	355
55°	236	327	561	780	910	223
65°	144	181	378	578	684	143
75°	72	96	244	415	444	76
85°	15	49	172	292	276	18
90°	0	41	160	261	235	3
95°	6	44	169	267	238	11
105°	50	81	212	312	300	54
115°	120	153	269	361	378	119
125°	207	238	329	409	438	185
135°	310	333	396	460	483	239
145°	430	447	486	524	543	265
155°	520	530	552	578	584	237
165°	578	580	593	603	609	163
175°	610	609	612	613	613	58
180°	610	610	610	610	610	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1326	1326	1326	1326	1326
5°	1296	1298	1307	1321	1329
10°	1258	1264	1298	1338	1360
15°	1204	1226	1283	1349	1389
20°	1083	1116	1204	1309	1370
25°	966	1009	1118	1243	1324
30°	836	892	1027	1184	1290
35°	724	789	940	1120	1244
40°	583	658	836	1041	1173
45°	461	547	758	987	1138
50°	338	427	647	870	1010
55°	236	327	561	780	910
60°	187	243	464	658	775
65°	144	181	378	578	684
70°	104	132	301	495	563
75°	72	96	244	415	444
80°	41	67	201	344	346
85°	15	49	172	292	276
90°	0	41	160	261	235
95°	6	44	169	267	238
100°	24	56	187	287	258
105°	50	81	212	312	300
110°	81	113	240	336	341
115°	120	153	269	361	378
120°	160	193	298	384	407
125°	207	238	329	409	438
130°	253	280	355	427	453
135°	310	333	396	460	483
140°	364	384	433	484	503
145°	430	447	486	524	543
150°	467	481	510	543	555
155°	520	530	552	578	584
160°	549	553	572	587	595
165°	578	580	593	603	609
170°	606	607	613	618	623
175°	610	609	612	613	613
180°	610	610	610	610	610

(END OF REPORT)